

SWITCHING POWER UNIT AND INVERTER DEVICE

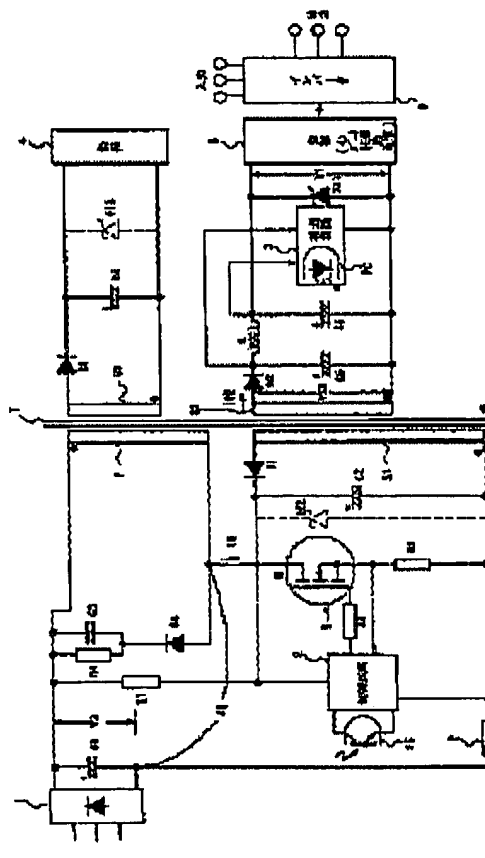
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Abstract of JP10146050

PROBLEM TO BE SOLVED: To check the withstand voltage breakdown of load circuit parts, by preventing the output overvoltage generate when the switching element of a switching power unit is short-circuited and failed.

SOLUTION: A switching power unit is equipped with a DC power source 1, a switching transformer T which has primary winding P connected to the DC power source, a switching element Q which is connected in series to the primary winding P, and a secondary DC circuit which comprises the rectifying diode D2 connected to the secondary winding S2 of the switching transformer T and smoothing capacitors C3 and C5. In this case, this is provided with a Zener diode ZD1 which suppresses the output voltage V1 to the value under the breakage voltage of a load circuit, in parallel with the smoothing capacitors C3 and C5 of the secondary DC circuit.



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